

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 August 2003 (07.08.2003)

PCT

(10) International Publication Number
WO 03/063878 A1

(51) International Patent Classification⁷: **A61K 31/557**,
31/121, A61P 17/06

(21) International Application Number: PCT/GB03/00364

(22) International Filing Date: 29 January 2003 (29.01.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0202002.2 29 January 2002 (29.01.2002) GB

(71) Applicant (for all designated States except US): **LEIV EIRIKSSON NYFOTEK AS** [NO/NO]; P.O. Box 1262, Pirsenteret, N-7462 Trondheim (NO).

(71) Applicant (for GB only): **CAMPBELL, Neil** [GB/GB]; Frank B. Dehn & Co., 179 Queen Victoria Street, London EC4V 4EL (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JOHANSEN, Berit** [NO/NO]; DEPARTMENT OF BIOLOGY, FACULTY OF SCIENCE AND TECHNOLOGY, Norwegian University of Science and Technology, N-7491 Trondheim (NO). **ANTHONSEN, Marit** [NO/NO]; Department of Biology, Faculty of Science and Technology, Norwegian University of Science and Technology, N-7491 Trondheim (NO). **SJURSEN, Wenche** [NO/NO]; Department of Biology, Faculty of Science and Technology, Norwegian University of Science and Technology, N-7491 Trondheim (NO).

HOLMEIDE, Anne, Kristen [NO/NO]; University of Oslo, P.O.Box 1041 Blindern, N-0316 Oslo (NO). **SKATTEBOL, Lars** [NO/NO]; University of Oslo, P.O.Box 1041, Blindern, N-0316 Oslo (NO).

(74) Agent: **Frank B. Dehn & Co.**; 179 Queen Victoria Street, London EC4V 4EL (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: USE OF POLYUNSATURATED KETONES FOR THE TREATMENT OF PSORIASIS

(57) Abstract: Psoriasis is a common, chronic, inflammatory skin disorder. This invention provides the use of a compound of formula (I) R-CO-X (Wherein R is a C₁₆₋₂₄ unsaturated hydrocarbon group optionally interrupted α , β , γ , or δ to the carbonyl group by a heteroatom or group of heteroatoms selected from S, O, N, SO, SO₂ said hydrocarbon group comprising at least 5 non-conjugated double bonds; and X is an electron withdrawing group) in the manufacture of a medicament for the treatment of psoriasis.

WO 03/063878 A1